



# MARINEX

## Deep sea bio extract/Fulvic acid Bio-stimulant

### What is marine humus extract "Marinex"?

- It is an extract of marine humus that has been cultivated deep underground by repeating the deposition, dispersion, polymerization, and resynthesis of the remains of animals and plants that have accumulated on the seafloor millions of years ago.
- It is a complex organic substance consisting of various components such as minerals, iodine, vitamins, organic acids, fulvic acid, and enzymes.
- It is a highly acidic solution with a pH of about 2.3 and an EC of about 500mS/m.
- In consideration for environment, we extract ingredient by natural filtration method and cultivate slowly and carefully.
- We have spent 30 years researching and verifying ingredients and effects, and have accumulated research and verification in various fields, from agriculture and the environment to medicine and beauty.

### Marinex is a "safe", "safe" and "stable" product.

- Marinex products meet standards for soft drinks. (Japan Food Research Laboratories)
- This product complies with the new JAS law (Ministry of Agriculture, Forestry and Fisheries) and is registered as a soil improvement material and foliar watering material.
- Marinex raw materials are approved for production by the Livestock Bureau of the Ministry of Agriculture, Forestry and Fisheries as livestock feed. (3B Livestock No. 684)



### Contents:



### Features and effects of marine humus extract "Marinex"

- (1) Decomposition (dispersion) of heavy metals (pollutants)
- (2) Surface activation such as oil content
- (3) Water purification of rivers and bays
- (4) Purification of tap water, sewage, industrial water, etc.
- (5) Strong redox power and long durability
- (6) Sterilization, antibacterial, and antiviral against pathogenic bacteria
- (7) Physiological activity on animals/plants and useful microorganisms
- (8) Enhancement of immunity of organisms
- (9) Reduction of residual toxicity of agricultural chemicals (synthetic organic substances)
- (10) Agglomerate structuring of cultivated soil
- (11) Adjustment of soil pH, EC, etc.
- (12) Chelation with metals (minerals)
- (13) Reduce water clusters (molecular clusters)
- (14) Deodorization/deodorization (adsorption/decomposition)

### Raw materials: Marine humus



Raw material of Marinex

# Use applications

## As an agricultural liquid

Corresponds to the new JAS law

\*Soil improvement material

\*Foliar spray material for microelement supplementation(Registered by the Ministry of Agriculture, Forestry and Fisheries on November 30, 2022)

## How to use

①Quantity of watering:

1L Marinex liquid per 10a

②Quantity of watering leaf's surface:

200~500ml Marinex liquid per 10a

③Duration of Marinex water diluted with water:

There's very little change of Marinex water diluted with water for a week.

④Mixing Marinex with agricultural chemicals:

It can be mixed with disinfectants but should not be mixed with organophosphates.

## As Ornamental fish's water quality

management materials

\*Sterilization, deodorization, adsorption and removal of harmful substances of aquarium water

\*Improvement of feed palatability

\*Measures against fish diseases

## How to use

①Water tank cleaning: Spray a 100-fold dilution of Marinex all over the tank before adding water.

②Breeding water and water exchange: Leave about 10% of old water. Add 50 cc of Marinex to 100 liters of water that has been prepared and left to stand for one day. After that, gently put the ornamental fish into the tank.

③Feed (Live bait such as bloodworms and water fleas): Soak in Marinex diluted about 300 times for 10 to 20 minutes and fed after 20 minutes.



## MARINEX materials composition

water	58.17%
fat	0.52%
protein (N6.25)	7.03%
ash	56.66%
fiber	9.18%
sugar	26.61%
nitrogen	1.12%
ammonia nitrogen	61 mg/kg
organic matter	43.34%

“notes”

value based on a dry condition

## The elements of Marine Essential minerals

Mineral	Content	Mineral	Content
Calcium (Ca)	240.00 mg/L	Sulfur (S)	1,170.00 mg/L
Iron (Fe)	20.00 mg/L	Zinc (Zn)	3.10 mg/L
Copper (Cu)	0.62 mg/L	Sodium (Na)	91.00 mg/L
Manganese(Mn)	6.80 mg/L	Magnesium(Mg)	92.00 mg/L
Aluminium(Al)	330.00 mg/L	Silicon (Si)	38.00 mg/L
Nickel (Ni)	0.22 mg/L	Strontium (Sr)	2.00 mg/L
Yttrium (Y)	0.40 mg/L	Lithium (Li)	0.30 mg/L
Boron (B)	a very small	Lanthanum (La)	a very small
Scandium (Sc)	a very small	Selenium (Se)	a very small

Analysis: Institute of Industrial Science, University of Tokyo

Date: 1996 21th Nov.

Equipment: I C P (SEIKO-SPS 1500 VR)

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